

APPENDIX C:

Complete list of suspected causes of impairment and cause descriptions used in U.S. EPA's Assessment Database

Suspected Causes	Description of Suspected Causes of Impairment
alpha-BHC	alpha-BHC. CAS Registry Number: 319-84-6. Code a Clean Water Act Priority Pollutant. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
alpha-Endosulfan (Endosulfan 1)	alpha-Endosulfan (Endosulfan 1). CAS Registry Number: 959-98-8. Code a Clean Water Act Priority Pollutant.
beta-BHC	beta-BHC. CAS Registry Number: 319-85-7. Code a Clean Water Act Priority Pollutant. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
beta-Endosulfan (Endosulfan 2)	beta-Endosulfan (Endosulfan 2). CAS Registry Number: 33213-65-9. Code a Clean Water Act Priority Pollutant.
delta-BHC	delta-BHC. CAS Registry Number: 319-86-8. Code a Clean Water Act Priority Pollutant. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
1,1,1,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane. CAS Registry Number: 630-20-6. Code related to a toxic chemical in the Toxics Release Inventory.
1,1,1-Trichloroethane	1,1,1-Trichloroethane. CAS Registry Number: 71-55-6. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane. CAS Registry Number: 79-34-5. Code a Clean Water Act Priority Pollutant.
1,1,2-Trichloroethane	1,1,2-Trichloroethane. CAS Registry Number: 79-00-5. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
1,1-Dichloro-1,2,2-trifluoroethane	1,1-Dichloro-1,2,2-trifluoroethane. CAS Registry Number: 306-83-2. Code related to a toxic chemical in the Toxics Release Inventory.
1,1-Dichloroethane	1,1-Dichloroethane. CAS Registry Number: 75-34-3. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
1,2,3,4-Tetrachlorobenzene	1,2,3,4-Tetrachlorobenzene. CAS Registry Number: 634-66-2. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.

Suspected Causes	Description of Suspected Causes of Impairment
1,2,4,5-Tetrachlorobenzene	1,2,4,5-Tetrachlorobezene. CAS Registry Number: 95-95-3. Code a Clean Water Act Non-Priority Pollutant.
1,2,4-Trichlorobenzene	1,2,4-Trichlorobenzene. CAS Registry Number: 120-82-1. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
1,2,4-Trimethylbenzene	1,2,4-Trimethylbenzene. CAS Registry Number: 95-63-6. Code related to a toxic chemical in the Toxics Release Inventory.
1,2-Butylene oxide	1,2-Butylene oxide. CAS Registry Number: 106-88-7. Code related to a toxic chemical in the Toxics Release Inventory.
1,2-Dibromo-3-chloropropane	1,2-Dibromo-3-chloropropane. CAS Registry Number: 96-12-8. Code related to a toxic chemical in the Toxics Release Inventory.
1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-3-chloropropane (DBCP). CAS Registry Number: 10222-01-2. Code a Safe Drinking Water Act Standard.
1,2-Dichloroethane	1,2-Dichloroethane. CAS Registry Number: 107-06-2. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
1,2-Dichloroethylene	1,2-Dichloroethylene. CAS Registry Number: 540-59-0. Code related to a toxic chemical in the Toxics Release Inventory.
1,2-Dichloropropane	1,2-Dichloropropane. CAS Registry Number: 78-87-5. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
1,2-Diphenylhydrazine	1,2-Diphenylhydrazine. CAS Registry Number: 122-66-7. Code a Clean Water Act Priority Pollutant. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
1,3-Butadiene	1,3-Butadiene. CAS Registry Number: 106-99-0. Code related to a toxic chemical in the Toxics Release Inventory.
1,3-Dichloropropene	1,3-Dichloropropene. CAS Registry Number: 542-75-6. Code a Clean Water Act Priority Pollutant.
1,4-Dioxane	1,4-Dioxane. CAS Registry Number: 123-91-1. Code related to a toxic chemical in the Toxics Release Inventory.
2,2'-Dichlorodiethyl ether	2,2'-Dichlorodiethyl ether. CAS Registry Number: 111-44-4. Code a Clean Water Act Priority Pollutant.
2,2'-Dichlorodiisopropyl ether	2,2'-Dichlorodiisopropyl ether. CAS Registry Number: 39638-32-9. Code a Clean Water Act Priority Pollutant.

Suspected Causes	Description of Suspected Causes of Impairment
2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-Tetrachlorodibenzofuran. CAS Registry Number: 51207-31-9. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
2,3,7,8-Tetrachlorodibenzo-p-dioxin (only)	2,3,7,8-Tetrachlorodibenzo-p-dioxin (only) Synonym 2,3,7,8-TCDD or TCDD
2,3-Dichloropropene	2,3-Dichloropropene. CAS Registry Number: 78-88-6. Code related to a toxic chemical in the Toxics Release Inventory.
2,4,5-TP (Silvex)	2,4,5-TP (Silvex). CAS Registry Number: 93-72-1. Code a Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard.
2,4,5-Trichlorophenol	2,4,5-Trichlorophenol. CAS Registry Number: 95-95-4. Code a Clean Water Act Organoleptic Pollutant.
2,4,6-Trichlorophenol	2,4,6-Trichlorophenol. CAS Registry Number: 88-06-2. Code a Clean Water Act Priority Pollutant. Code a Clean Water Act Organoleptic Pollutant. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
2,4-D	2,4-D. CAS Registry Number: 94-75-7. Code a Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard.
2,4-Diaminotoluene	2,4-Diaminotoluene. CAS Registry Number: 95-80-7. Code related to a toxic chemical in the Toxics Release Inventory.
2,4-Dichlorophenol	2,4-Dichlorophenol. CAS Registry Number: 120-83-2. Code a Clean Water Act Priority Pollutant. Code a Clean Water Act Organoleptic Pollutant. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
2,4-Dimethylphenol	2,4-Dimethylphenol. CAS Registry Number: 105-67-9. Code a Clean Water Act Priority Pollutant. Code a Clean Water Act Organoleptic Pollutant.
2,4-Dinitrophenol	2,4-Dinitrophenol. CAS Registry Number: 51-28-5. Code a Clean Water Act Priority Pollutant. Code a Clean Water Act Non-Priority Pollutant. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
2,4-Dinitrotoluene	2,4-Dinitrotoluene. CAS Registry Number: 121-14-2. Code a Clean Water Act Priority Pollutant. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
2,5-Dichlorophenol	2,5-Dichlorophenol. CAS Registry Number: 583-78-8. Code a Clean Water Act Organoleptic Pollutant.

Suspected Causes	Description of Suspected Causes of Impairment
2,6-Dinitrotoluene	2,6-Dinitrotoluene. CAS Registry Number: 606-20-2. Code a Clean Water Act Priority Pollutant. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
2-Acetylaminofluorene	2-Acetylaminofluorene. CAS Registry Number: 53-96-3. Code related to a toxic chemical in the Toxics Release Inventory.
2-Chloroethyl vinyl ether	2-Chloroethyl vinyl ether. CAS Registry Number: 110-75-8. Code a Clean Water Act Priority Pollutant.
2-Chloronaphthalene	2-Chloronaphthalene. CAS Registry Number: 91-58-7. Code a Clean Water Act Priority Pollutant.
2-Chlorophenol	2-Chlorophenol. CAS Registry Number: 95-57-8. Code a Clean Water Act Priority Pollutant. Code a Clean Water Act Organoleptic Pollutant.
2-Ethoxyethanol	2-Ethoxyethanol. CAS Registry Number: 110-80-5. Code related to a toxic chemical in the Toxics Release Inventory.
2-Methoxyethanol	2-Methoxyethanol. CAS Registry Number: 109-86-4. Code related to a toxic chemical in the Toxics Release Inventory.
2-Methylnaphthalene	2-Methylnaphthalene. CAS Registry Number: 91-57-6.
2-Methylpyridine	2-Methylpyridine. CAS Registry Number: 109-06-8. Code related to a toxic chemical in the Toxics Release Inventory.
2-Nitrophenol	2-Nitrophenol. CAS Registry Number: 88-75-5. Code a Clean Water Act Priority Pollutant.
3,3'-Dichlorobenzidine	3,3'-Dichlorobenzidine. CAS Registry Number: 91-94-1. Code a Clean Water Act Priority Pollutant.
3,3'-Dimethoxybenzidine	3,3'-Dimethoxybenzidine. CAS Registry Number: 119-90-4. Code related to a toxic chemical in the Toxics Release Inventory.
3,3'-Dimethylbenzidine	3,3'-Dimethylbenzidine. CAS Registry Number: 119-93-7. Code related to a toxic chemical in the Toxics Release Inventory.
3,4-Dichlorophenol	3,4-Dichlorophenol. CAS Registry Number: 95-77-2. Code a Clean Water Act Organoleptic Pollutant.
3-Chlorophenol	3-Chlorophenol. CAS Registry Number: 108-43-0. Code a Clean Water Act Organoleptic Pollutant.

Suspected Causes	Description of Suspected Causes of Impairment
4,4-Dichloro-2-butene	4,4-Dichloro-2-butene. CAS Registry Number: 764-41-0. Code related to a toxic chemical in the Toxics Release Inventory.
4,4'-Isopropylidenediphenol	4,4'-Isopropylidenediphenol. CAS Registry Number: 80-05-7. Code related to a toxic chemical in the Toxics Release Inventory.
4,4'-Methylenebis	4,4'-Methylenebis. CAS Registry Number: 101-14-4. Code related to a toxic chemical in the Toxics Release Inventory.
4-Aminobiphenyl	4-Aminobiphenyl. CAS Registry Number: 92-67-1. Code related to a toxic chemical in the Toxics Release Inventory.
4-Bromophenylphenyl ether	4-Bromophenylphenyl ether. CAS Registry Number: 101-55-3. Code a Clean Water Act Priority Pollutant.
4-Chloro-3-methylphenol (3-Methyl-4-Chlorophenol)	4-Chloro-3-methylphenol (3-Methyl-4-Chlorophenol). CAS Registry Number: 59-50-7. Code a Clean Water Act Priority Pollutant. Code a Clean Water Act Organoleptic Pollutant.
4-Chlorophenol	4-Chlorophenol. CAS Registry Number: 106-48-9. Code a Clean Water Act Organoleptic Pollutant.
4-Dimethylaminoazobenzene	4-Dimethylaminoazobenzene. CAS Registry Number: 60-11-7. Code related to a toxic chemical in the Toxics Release Inventory.
4-Methylphenol	4-Methylphenol. CAS Registry Number: 106-44-5.
4-Nitrophenol	4-Nitrophenol. CAS Registry Number: 100-02-7. Code a Clean Water Act Priority Pollutant.
5-Nitro-o-toluidine	5-Nitro-o-toluidine. CAS Registry Number: 99-55-8. Code related to a toxic chemical in the Toxics Release Inventory.
Abnormal Fish deformities, erosions, lesions, tumors (DELTS)	Abnormal Fish deformities, erosions, lesions, tumors (DELTS). Code described in the following EPA technical document(s): EPA-903-F-99-005.
Abnormal Fish Histology (Lesions)	Abnormal Fish Histology (Lesions). Code described in the following EPA technical document(s): EPA-903-F-99-005.
Acenaphthene	Acenaphthene. CAS Registry Number: 83-32-9. Code a Clean Water Act Priority Pollutant. Code a Clean Water Act Organoleptic Pollutant.
Acenaphthylene	Acenaphthylene. CAS Registry Number: 208-96-8. Code a Clean Water Act Priority Pollutant.

Suspected Causes	Description of Suspected Causes of Impairment
Acetaldehyde	Acetaldehyde. CAS Registry Number: 75-07-0. Code related to a toxic chemical in the Toxics Release Inventory.
Acetamide	Acetamide. CAS Registry Number: 60-35-5. Code related to a toxic chemical in the Toxics Release Inventory.
Acetochlor	Acetochlor. CAS Registry Number: 34256-82-1. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
Acetonitrile	Acetonitrile. CAS Registry Number: 75-05-8. Code related to a toxic chemical in the Toxics Release Inventory.
Acidity (Cold Titration)	Acidity (Cold Titration)
Acidity, Hot (Hot Titration)	Acidity, Hot (Hot Titration)
Acrolein	Acrolein. CAS Registry Number: 107-02-8. Code a Clean Water Act Priority Pollutant.
Acrylamide	Acrylamide. CAS Registry Number: 79-06-1. Code a Safe Drinking Water Act Standard.
Acrylonitrile	Acrylonitrile. CAS Registry Number: 107-13-1. Code a Clean Water Act Priority Pollutant.
Alachlor	Alachlor. CAS Registry Number: 15972-60-8. Code a Safe Drinking Water Act Standard. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
Aldicarb	
Aldrin	Aldrin. CAS Registry Number: 309-00-2. Code a Clean Water Act Priority Pollutant. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
Algal Growth Potential	Algal Growth Potential. The algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions.
Alkalinity, Carbonate as CaCO ₃	Alkalinity, Carbonate as CaCO ₃ . Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Alkylbenzene	Alkylbenzene: (Linear alkylbenzene) Colorless liquid. Class of chemicals with a straight Carbon chain, generally C6-C12, connected to a benzene ring. Uses include detergents and electrical cable insulation/corrosion protection.

Suspected Causes	Description of Suspected Causes of Impairment
Allyl alcohol	Allyl alcohol. CAS Registry Number: 107-18-6. Code related to a toxic chemical in the Toxics Release Inventory.
Allyl chloride	Allyl chloride. CAS Registry Number: 107-05-1. Code related to a toxic chemical in the Toxics Release Inventory.
Alpha particles	Alpha particles. CAS Registry Number: 12587-46-1. Code a Safe Drinking Water Act Standard.
alpha-Naphthylamine	alpha-Naphthylamine. CAS Registry Number: 134-32-7. Code related to a toxic chemical in the Toxics Release Inventory.
Alteration in stream-side or littoral vegetative covers	Alteration in stream-side or littoral vegetative covers. See technical discussion in: Federal Interagency Stream Restoration Working Group (ISRWG). 1998 (Updated 2001). Stream Corridor Restoration: Principles, Processes, and Practices. By the Federal Interagency Stream Restoration Working Group (FISRWG)(15 Federal agencies of the US gov't). GPO Item No. 0120-A; SuDocs No. A 57.6/2:EN 3/PT.653
Alterations in wetland habitats	Alterations in wetland habitats. See technical discussion in: Federal Interagency Stream Restoration Working Group (ISRWG). 1998 (Updated 2001). Stream Corridor Restoration: Principles, Processes, and Practices. By the Federal Interagency Stream Restoration Working Group (FISRWG)(15 Federal agencies of the US gov't). GPO Item No. 0120-A; SuDocs No. A 57.6/2:EN 3/PT.653
Alum (aluminum Sulfate)	Alum (aluminum Sulfate). CAS Registry Number: 10043-01-3.
Aluminum	Aluminum. CAS Registry Number: 7429-90-5. Code a Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard.
Aluminum, dissolved	Aluminum, dissolved. CAS Registry Number: 7429-90-5. Code a Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard.
Aluminum, total recoverable	Aluminum, total recoverable. CAS Registry Number: 7429-90-5. Code a Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard.
Ambient Bioassays -- Acute Aquatic Toxicity	Ambient Bioassays -- Acute Aquatic Toxicity. Code commonly used in CWA NPDES permitting. Code related to toxic bioassays used for CWA permitting. Code described in the following EPA technical document(s): EPA 821-B-00-004. Code related to toxic bioassays used for CWA permitting.

Suspected Causes	Description of Suspected Causes of Impairment
Ambient Bioassays -- Chronic Aquatic Toxicity	Ambient Bioassays -- Chronic Aquatic Toxicity. Code commonly used in CWA NPDES permitting. Code related to toxic bioassays used for CWA permitting. Code described in the following EPA technical document(s): EPA 821-B-00-004. Code related to toxic bioassays used for CWA permitting.
Amitrole	Amitrole. CAS Registry Number: 61-82-5. Code related to a toxic chemical in the Toxics Release Inventory.
Ammonia (Total)	Nitrogen, ammonia. CAS Registry Number: 7727-37-9. Code commonly used in CWA NPDES permitting.
Ammonia (Un-ionized)	Ammonia (Unionized). CAS Registry Number: 7664-41-7. Code a Clean Water Act Non-Priority Pollutant. Code commonly used in CWA NPDES permitting.
Amnesic shellfish poisoning (ASP) biotoxins	Amnesic shellfish poisoning (ASP) biotoxins. A major category of human health impacts associated with toxins from "red tides" and similar harmful algal blooms in marine waters. See materials available through the Harmful Algal Page maintained by the National Office for Marine Biotoxins and Harmful Algal Blooms, Woods Hole Oceanographic Institution at the following internet address: http://www.redtide/whoi.edu/hab/
Aniline	Aniline. CAS Registry Number: 62-53-3. Code related to a toxic chemical in the Toxics Release Inventory.
Anthracene	Anthracene. CAS Registry Number: 120-12-7. Code a Clean Water Act Priority Pollutant.
Antimony	Antimony. CAS Registry Number: 7440-36-0. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Aquatic Algae	Aquatic Algae: Microscopic plants present in the water.
Aquatic Macroinvertebrate Bioassessments	Aquatic Macroinvertebrate Bioassessments. Code related to biological assessments to make use attainment conclusions. Code described in the following EPA technical document(s): EPA-841-B-99-002.
Aquatic Plant Bioassessments	Aquatic Plant Bioassessments. Code related to biological assessments to make use attainment conclusions. Code described in the following EPA technical document(s): EPA-841-B-99-002.
Aquatic Plants - Native	Aquatic Plants - Native. Noxious Aquatic Plants that are native to an area.

Suspected Causes	Description of Suspected Causes of Impairment
Aquatic Plants (Macrophytes)	Aquatic Plants (Macrophytes): Aquatic Plants large enough to be visible by the naked eye.
Arsenic	Arsenic. CAS Registry Number: 7440-38-2. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Asbestos	Asbestos. CAS Registry Number: 1332-21-4. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Atlantic Sea Lamprey, <i>Petromyzon marinus</i>	Atlantic Sea Lamprey, <i>Petromyzon marinus</i> (ITIS TSN 159722; STORET Characteristic ID 11264). National Invasive Species Council. 2001. National Management Plan: Meeting the Invasive Species Challenge. Available on Internet at: http://www.invasivespecies.gov/
Atrazine	Atrazine. CAS Registry Number: 1912-24-9. Code a Safe Drinking Water Act Standard.
Bacterial Slimes	Bacterial Slimes: Nuisance condition created by certain species of bacteria being present in the water.
Barium	Barium. CAS Registry Number: 7440-39-3. Code a Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard.
Benthic-Macroinvertebrate Bioassessments	Benthic-Macroinvertebrate Bioassessments. Code related to biological assessments to make use attainment conclusions. Code described in the following EPA technical document(s): EPA-841-B-99-002.
Benzal chloride	Benzal chloride. CAS Registry Number: 98-87-3. Code related to a toxic chemical in the Toxics Release Inventory.
Benzene	Benzene. CAS Registry Number: 71-43-2. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Benzidine	Benzidine. CAS Registry Number: 92-87-5. Code a Clean Water Act Priority Pollutant.
Benzo(a)pyrene (PAHs)	Benzo(a)pyrene (PAHs). CAS Registry Number: 50-32-8. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Benzo[a]anthracene	Benzo[a]anthracene. CAS Registry Number: 56-55-3. Code a Clean Water Act Priority Pollutant.
Benzo[b]fluoranthene	Benzo[b]fluoranthene. CAS Registry Number: 205-99-2. Code a Clean Water Act Priority Pollutant.

Suspected Causes	Description of Suspected Causes of Impairment
Benzo[g,h,i]perylene	Benzo[g,h,i]perylene. CAS Registry Number: 191-24-2. Code a Clean Water Act Priority Pollutant.
Benzo[k]fluoranthene	Benzo[k]fluoranthene. CAS Registry Number: 207-08-9. Code a Clean Water Act Priority Pollutant.
Benzoic Acid	Benzoic Acid. CAS Registry Number: 65-85-0.
Benzoyl chloride	Benzoyl chloride. CAS Registry Number: 98-88-4. Code related to a toxic chemical in the Toxics Release Inventory.
Benzyl chloride	Benzyl chloride. CAS Registry Number: 100-44-7. Code related to a toxic chemical in the Toxics Release Inventory.
Beryllium	Beryllium. CAS Registry Number: 7440-41-7. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Beta particles and photon emitters	Beta particles and photon emitters. CAS Registry Number: 12587-47-2. Code a Safe Drinking Water Act Standard.
beta-Naphthylamine	beta-Naphthylamine. CAS Registry Number: 91-59-8. Code related to a toxic chemical in the Toxics Release Inventory.
Biphenyl	Biphenyl. CAS Registry Number: 92-52-4. Code related to a toxic chemical in the Toxics Release Inventory.
Bis(2-chloro-1-methylethyl)	Bis(2-chloro-1-methylethyl). CAS Registry Number: 108-60-1. Code related to a toxic chemical in the Toxics Release Inventory.
Bis(2-Chloroethoxy)methane	Bis(2-Chloroethoxy)methane. CAS Registry Number: 111-91-1. Code a Clean Water Act Priority Pollutant.
Bis(2-chloroethyl) ether	Bis(2-chloroethyl) ether. Code a Clean Water Act Priority Pollutant. CAS Registry Number: 111444.
Bis(2-chloroisopropyl) ether	Bis(2-chloroisopropyl) ether. Code a Clean Water Act Priority Pollutant CAS Registry Number: 108601.
Bis(n-octyl) phthalate	Bis(n-octyl) phthalate. CAS Registry Number: 117-84-0. Code a Clean Water Act Priority Pollutant.
BOD, Biochemical oxygen demand	BOD, Biochemical oxygen demand. Code commonly used in CWA NPDES permitting. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .

Suspected Causes	Description of Suspected Causes of Impairment
BOD, carbonaceous	BOD, carbonaceous. Code commonly used in CWA NPDES permitting. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
BOD, nitrogenous	BOD, nitrogenous. Code commonly used in CWA NPDES permitting. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
BOD, sediment load (Sediment Oxygen Demand)	BOD, sediment load (Sediment Oxygen Demand). Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Boron	Boron. CAS Registry Number: 7440-42-8. Code a Clean Water Act Non-Priority Pollutant.
Bottom Deposits	Bottom Deposits. Deposits of Sediment and Silt in the bed of the stream.
Bromoform	Bromoform. CAS Registry Number: 75-25-2. Code a Clean Water Act Priority Pollutant.
Butyl benzyl phthalate	Butyl benzyl phthalate. CAS Registry Number: 85-68-7. Code a Clean Water Act Priority Pollutant.
Butyraldehyde	Butyraldehyde. CAS Registry Number: 123-72-8. Code related to a toxic chemical in the Toxics Release Inventory.
Cadmium	Cadmium. CAS Registry Number: 7440-43-9. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Captan	Captan. CAS Registry Number: 133-06-2. Code related to a toxic chemical in the Toxics Release Inventory.
Carbaryl	Carbaryl. CAS Registry Number: 63-25-2.
Carbofuran	Carbofuran. CAS Registry Number: 1563-66-2. Code a Safe Drinking Water Act Standard.
Carbon Disulfide	Carbon Disulfide. CAS Registry Number: 75-15-0.
Carbon tetrachloride	Carbon tetrachloride. CAS Registry Number: 56-23-5. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Cause Unknown	Cause Unknown. Non-Attainment was identified, but a specific cause of impairment could not be identified.
Cesium	Cesium. CAS Registry Number: 7440-46-2.

Suspected Causes	Description of Suspected Causes of Impairment
Changes in Stream Depth and Velocity Patterns	Changes in stream depth and velocity patterns. Hydromodification impacts to stream pool/run/riffle habitat types
Chemical oxygen demand (COD)	Chemical oxygen demand (COD). Code commonly used in CWA NPDES permitting. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Chloramben	Chloramben. CAS Registry Number: 133-90-4. Code related to a toxic chemical in the Toxics Release Inventory.
Chloramines	Chloramines. CAS Registry Number: 10599-90-3. Code a Safe Drinking Water Act Standard.
Chlordane	Chlordane. CAS Registry Number: 57-74-9. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
Chlordane in Fish Tissue	Chlordane found in the tissue of edible fish.
Chloride	Chloride. CAS Registry Number: 16887-00-6. Code a Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard.
Chlorine	Chlorine. CAS Registry Number: 7782-50-5. Code a Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard. Code commonly used in CWA NPDES permitting.
Chlorine dioxide (as ClO ₂)	Chlorine dioxide (as ClO ₂). CAS Registry Number: 10049-04-4. Code a Safe Drinking Water Act Standard.
Chlorine, Residual (Chlorine Demand)	Chlorine, Residual (Chlorine Demand)
Chloroacetic acid	Chloroacetic acid. CAS Registry Number: 79-11-8. Code related to a toxic chemical in the Toxics Release Inventory.
Chlorobenzene (mono)	Chlorobenzene (mono). CAS Registry Number: 108-90-7. Code a Clean Water Act Priority Pollutant. Code a Clean Water Act Organoleptic Pollutant. Code a Safe Drinking Water Act Standard.
Chlorobenzilate	Chlorobenzilate. CAS Registry Number: 510-15-6. Code related to a toxic chemical in the Toxics Release Inventory.
Chlorodibromomethane	Chlorodibromomethane. CAS Registry Number: 124-48-1. Code a Clean Water Act Priority Pollutant.

Suspected Causes	Description of Suspected Causes of Impairment
Chlorodifluoromethane	Chlorodifluoromethane. CAS Registry Number: 75-45-6. Code related to a toxic chemical in the Toxics Release Inventory.
Chloroethane	Chloroethane. CAS Registry Number: 75-00-3. Code a Clean Water Act Priority Pollutant.
Chloroform	Chloroform. CAS Registry Number: 67-66-3. Code a Clean Water Act Priority Pollutant.
Chloromethyl methyl ether	Chloromethyl methyl ether. CAS Registry Number: 107-30-2. Code related to a toxic chemical in the Toxics Release Inventory.
Chlorophenyl-4 phenyl ether	Chlorophenyl-4 phenyl ether. CAS Registry Number: 7005-72-3. Code a Clean Water Act Priority Pollutant.
Chlorophyll-a	Chlorophyll-a. CAS Registry Number: 479-61-8.
Chloroprene	Chloroprene. CAS Registry Number: 126-99-8. Code related to a toxic chemical in the Toxics Release Inventory.
Chlorothalonil	Chlorothalonil. CAS Registry Number: 1897-45-6. Code related to a toxic chemical in the Toxics Release Inventory.
Chlorpyrifos	Chlorpyrifos. CAS Registry Number: 2921-88-2. Code a Clean Water Act Non-Priority Pollutant.
Chromium (total)	Chromium (total). CAS Registry Number: 7440-47-3. Code a Safe Drinking Water Act Standard.
Chromium, hexavalent	Chromium, hexavalent. CAS Registry Number: 18540-29-9. Code a Clean Water Act Priority Pollutant.
Chromium, trivalent	Chromium, trivalent. CAS Registry Number: 16065-83-1. Code a Clean Water Act Priority Pollutant.
Chrysene (C1-C4)	Chrysene (C1-C4). CAS Registry Number: 218-01-9. Code a Clean Water Act Priority Pollutant.
Ciguatera fish poisoning (CFP) biotoxins	Ciguatera fish poisoning (CFP) biotoxins. A major category of human health impacts associated with toxins from "red tides" and similar harmful algal blooms in marine waters. See materials available through the Harmful Algal Page maintained by the National Office for Marine Biotoxins and Harmful Algal Blooms, Woods Hole Oceanographic Institution at the following Internet address: http://www.redtide/whoi.edu/hab/

Suspected Causes	Description of Suspected Causes of Impairment
cis-1,2-Dichloroethylene	cis-1,2-Dichloroethylene. CAS Registry Number: 156-59-2. Code a Safe Drinking Water Act Standard.
cis-Chlordane	cis-Chlordane (or alpha-Chlordane). CAS Registry Number: 5103-71-9.
Cobalt	Cobalt. CAS Registry Number: 7440-48-4.
Color	Color. Code a Color. Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard. Code commonly used in CWA NPDES permitting. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Combination Benthic/Fishes Bioassessments	Combination Benthic/Fishes Bioassessments. Code related to biological assessments to make use attainment conclusions. Code described in the following EPA technical document(s): EPA-841-B-99-002.
Combined Biota/Habitat Bioassessments	Combined Biota/Habitat Bioassessments. Code related to biological assessments to make use attainment conclusions. Code described in the following EPA technical document(s): EPA-841-B-99-002.
Copper	Copper. CAS Registry Number: 7440-50-8. Code a Clean Water Act Priority Pollutant. Code a Clean Water Act Organoleptic Pollutant. Code a Safe Drinking Water Act Standard.
Creosote	Creosote. CAS Registry Number: 8001-58-9.
Cresol (mixed isomers)	Cresol (mixed isomers). CAS Registry Number: 1319-77-3. Code related to a toxic chemical in the Toxics Release Inventory.
Cryptosporidium	Cryptosporidium. BIN ID: 761684. Code a Safe Drinking Water Act Standard. Code described in the following EPA technical document(s): EPA-841-R-00-0002.
Cumene	Cumene. CAS Registry Number: 98-82-8. Code related to a toxic chemical in the Toxics Release Inventory.
Cyanide	Cyanide. CAS Registry Number: 57-12-5. Code a Clean Water Act Priority Pollutant.
Cyanide (as free cyanide)	Cyanide (as free cyanide). CAS Registry Number: 21725-46-2. Code a Safe Drinking Water Act Standard.

Suspected Causes	Description of Suspected Causes of Impairment
Cyanobacteria hepatotoxic microcystins	Cyanobacteria hepatotoxic microcystins. Major biotoxin associated with harmful algal blooms (HABs) containing certain type of cyanobacteria (blue green algae). Found in inland freshwaters and some coastal waters. See technical background in U.S. EPA. 2001. Creating a Cyanotoxin Target List for the Unregulated Contaminant Monitoring Rule. Available on the Internet at: http://www.epa.gov/safewater/standard/ucmr/cyanotoxicmeeting0501.pdf
Cyanobacteria hepatotoxic nodularins	Cyanobacteria hepatotoxic nodularins. Major biotoxin associated with harmful algal blooms (HABs) containing certain type of cyanobacteria (blue green algae). Found in inland freshwaters and some coastal waters. See technical background in U.S. EPA. 2001. Creating a Cyanotoxin Target List for the Unregulated Contaminant Monitoring Rule. Available on the Internet at: http://www.epa.gov/safewater/standard/ucmr/cyanotoxicmeeting0501.pdf
Cyanobacteria neurotoxic anatoxins	Cyanobacteria neurotoxic anatoxins. Major biotoxin associated with harmful algal blooms (HABs) containing certain type of cyanobacteria (blue green algae). Found in inland freshwaters and some coastal waters. See technical background in U.S. EPA. 2001. Creating a Cyanotoxin Target List for the Unregulated Contaminant Monitoring Rule. Available on the Internet at: http://www.epa.gov/safewater/standard/ucmr/cyanotoxicmeeting0501.pdf
Cyanobacteria neurotoxic saxitoxins	Cyanobacteria neurotoxic saxitoxins. Major biotoxin associated with harmful algal blooms (HABs) containing certain type of cyanobacteria (blue green algae). Found in inland freshwaters and some coastal waters. See technical background in U.S. EPA. 2001. Creating a Cyanotoxin Target List for the Unregulated Contaminant Monitoring Rule. Available on the Internet at: http://www.epa.gov/safewater/standard/ucmr/cyanotoxicmeeting0501.pdf
Cyclohexanamine, N-ethyl-1-phenyl-	Cyclohexanamine, N-ethyl-1-phenyl- (or Cyclohexamine). CAS No. 2201-15-2.
Cyclohexane	Cyclohexane. CAS Registry Number: 110-82-7. Code related to a toxic chemical in the Toxics Release Inventory.
Dacthal	Dacthal. CAS Registry Number: 1861-32-1.
Dalapon	Dalapon. CAS Registry Number: 75-99-0. Code a Safe Drinking Water Act Standard.
DDD	DDD. CAS Registry Number: 72-54-8. Code a Clean Water Act Priority Pollutant. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.

Suspected Causes	Description of Suspected Causes of Impairment
DDE	DDE. CAS Registry Number: 72-55-9. Code a Clean Water Act Priority Pollutant. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
DDT	DDT. CAS Registry Number: 50-29-3. Code a Clean Water Act Priority Pollutant. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
DDT in Fish Tissue	DDT found in the tissue of edible fish.
Debris/Floatables/Trash	Debris/Floatables/Trash. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
DEHP (Di-sec-octyl phthalate)	DEHP (Di-sec-octyl phthalate). CAS Registry Number: 117-81-7. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Demeton	Demeton. CAS Registry Number: 8065-48-3. Code a Clean Water Act Non-Priority Pollutant.
Di(2-ethylhexyl) adipate	Di(2-ethylhexyl) adipate. CAS Registry Number: 103-23-1. Code a Safe Drinking Water Act Standard.
Diallate	Diallate. CAS Registry Number: 2303-16-4. Code related to a toxic chemical in the Toxics Release Inventory.
Diaminotoluene (mixed isomers)	Diaminotoluene (mixed isomers). CAS Registry Number: 25376-45-8. Code related to a toxic chemical in the Toxics Release Inventory.
Diarrhetic shellfish poisoning (DSP) biotoxins	Diarrhetic shellfish poisoning (DSP) biotoxins. A major category of human health impacts associated with toxins from "red tides" and similar harmful algal blooms in marine waters. See materials available through the Harmful Algal Page maintained by the National Office for Marine Biotoxins and Harmful Algal Blooms, Woods Hole Oceanographic Institution at the following Internet address: http://www.redtide/whoi.edu/hab/
Diazinon	Diazinon. CAS Registry Number: 333-41-5. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
Dibenz[a,h]anthracene	Dibenz[a,h]anthracene. CAS Registry Number: 53-70-3. Code a Clean Water Act Priority Pollutant.

Suspected Causes	Description of Suspected Causes of Impairment
Dibenzofuran	Dibenzofuran. CAS Registry Number: 132-64-9. Code related to a toxic chemical in the Toxics Release Inventory.
Dibutyl phthalate	Dibutyl phthalate. CAS Registry Number: 84-74-2. Code a Clean Water Act Priority Pollutant.
Dichlorobenzene (mixed isomers)	Dichlorobenzene (mixed isomers). CAS Registry Number: 25321-22-6. Code related to a toxic chemical in the Toxics Release Inventory.
Dichlorobromomethane	Dichlorobromomethane. CAS Registry Number: 75-27-4. Code a Clean Water Act Priority Pollutant.
Dichlorodifluoromethane	Dichlorodifluoromethane. CAS Registry Number: 75-71-8. Code related to a toxic chemical in the Toxics Release Inventory.
Dichloromethane	Dichloromethane. CAS Registry Number: 75-09-2. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Dichloropropenes	Dichloropropenes. The sum of the isomers of dichloropropene: 1,1-dichloropropene, 1,2-dichloropropene, 1,3-dichloropropene, 2,3-dichloropropene, and 3,3-dichloropropene. CAS Registry Number: 26952-23-8.
Dichlorotrifluoroethane	Dichlorotrifluoroethane. CAS Registry Number: 34077-87-7. Code related to a toxic chemical in the Toxics Release Inventory.
Dichlorvos	Dichlorvos. CAS Registry Number: 62-73-7. Code related to a toxic chemical in the Toxics Release Inventory.
Dicofol	Dicofol. CAS Registry Number: 115-32-2. Code related to a toxic chemical in the Toxics Release Inventory.
Dieldrin	Dieldrin. CAS Registry Number: 60-57-1. Code a Clean Water Act Priority Pollutant. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
Diesel Fuel	Diesel Fuel: (Diesel Fuel, Automotive diesel oil, Diesel oil (petroleum), Diesel fuel no. 2, No. 2 diesel fuel, Home Heating Oil, Premier diesel fuel) Clear to straw tinted liquid / contains a red dye for home heating Fuel. Mixture of combustible hydrocarbons used as a fuel source for vehicles, equipment, and homes, fuel additives, lubricants, insecticide, and adjuvant
Diethyl phthalate	Diethyl phthalate. CAS Registry Number: 84-66-2. Code a Clean Water Act Priority Pollutant.

Suspected Causes	Description of Suspected Causes of Impairment
Dimethyl phthalate	Dimethyl phthalate. CAS Registry Number: 131-11-3. Code a Clean Water Act Priority Pollutant.
Dinitro-o-cresol	Dinitro-o-cresol. CAS Registry Number: 534-52-1. Code a Clean Water Act Priority Pollutant. Synonym: 2-methyl-4,6-Dinitrophenol.
Dinoseb	Dinoseb. CAS Registry Number: 88-85-7. Code a Safe Drinking Water Act Standard.
Dioxin (including 2,3,7,8-TCDD)	Dioxin (including 2,3,7,8-TCDD). CAS Registry Number: 1746-01-6. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
Diquat	Diquat. CAS Registry Number: 2764-72-9. Code a Safe Drinking Water Act Standard.
Direct Habitat Alterations	Direct Habitat Alterations. Anthropogenic modifications to stream channel morphology, substrate diversity, and/or riparian integrity which result in sub-optimal conditions unsuitable for support of balanced, integrated , adaptive communities of aquatic organisms endemic to the region.
Dissolved Gas Supersaturation	Dissolved Gas Supersaturation. Water is supersaturated with gases, which impedes the survival of the fish. Typically related with water immediately below dam spillways.
Dissolved oxygen saturation	Dissolved oxygen saturation. Code commonly used in CWA NPDES permitting. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Disulfoton	Disulfoton. CAS Registry Number: 298-04-4. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
Diuron	Diuron. CAS Registry Number: 330-54-1. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
Dodecylbenzene	Dodecylbenzene: (Laurylbenzene, 1-Phenyldodecane) Colorless liquid with a weak oily odor. General structure = C ₆ H ₅ (CH ₂) ₁₁ CH ₃ . Chemical intermediate for linear alkylbenzenesulfonate surfactants, dodecylnitrobenzene, dodecylaniline, dodecylbenzyl chloride. Uses include detergents and electrical cable insulation/corrosion protection
Dyfonate (Fonofos or Fonophos)	Dyfonate (Fonofos or Fonophos). CAS Registry Number: 944-22-9. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.

Suspected Causes	Description of Suspected Causes of Impairment
Electrical Conductivity (EC)	Electrical Conductivity (EC). A measure of salinity resulting from all the ions dissolved in a water sample or saturated paste. This includes negatively charged ions (e.g. Cl ⁻ , NO ₃ ⁻) and positively charged ions (e.g. Ca ²⁺ , Na ⁺). The preferred unit is decisiemens per meter (dS/m); however millimhos per centimeter (mmhos/cm) and micromhos per centimeter (µmhos/cm) are frequently used.
Endosulfan	Endosulfan. CAS Registry Number: 115-29-7.
Endosulfan sulfate	Endosulfan sulfate. CAS Registry Number: 1031-07-8. Code a Clean Water Act Priority Pollutant.
Endothall	Endothall. CAS Registry Number: 145-73-3. Code a Safe Drinking Water Act Standard.
Endrin	Endrin. CAS Registry Number: 72-20-8. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Endrin aldehyde	Endrin aldehyde. CAS Registry Number: 7421-93-4. Code a Clean Water Act Priority Pollutant.
Enterococcus	Enterococcus. BIN ID: 763854. Code described in the following EPA technical document(s): EPA-841-R-00-0002.
Epichlorohydrin	Epichlorohydrin. CAS Registry Number: 106-89-8. Code a Safe Drinking Water Act Standard.
EPTC	EPTC. CAS Registry Number: 759-94-4. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
<i>Escherichia coli</i>	<i>Escherichia coli</i> . BIN ID: 457804. Code a Safe Drinking Water Act Standard. Code described in the following EPA technical document(s): EPA-841-R-00-0002.
Estuarine Bioassessments	Estuarine Bioassessments. Code related to biological assessments to make use attainment conclusions. Code described in the following EPA technical document(s): EPA-822-F-00-11.
Ethanol	Ethanol. CAS Registry Number: 64-17-5
Ethelyne dibromide	Ethelyne dibromide. CAS Registry Number: 106-93-4. Code a Safe Drinking Water Act Standard.
Ether, bis Chloromethyl	Ether, bis Chlormethyl. CAS Registry Number: 542-88-1. Code a Clean Water Act Non-Priority Pollutant.

Suspected Causes	Description of Suspected Causes of Impairment
Ethylbenzene	Ethylbenzene. CAS Registry Number: 100-41-4. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Ethylene	Ethylene. CAS Registry Number: 74-85-1. Code related to a toxic chemical in the Toxics Release Inventory.
Ethylene Glycol	Ethylene Glycol. CAS Registry Number: 107-21-1.
Ethylene oxide	Ethylene oxide. CAS Registry Number: 75-21-8. Code related to a toxic chemical in the Toxics Release Inventory.
Ethylene thiourea	Ethylene thiourea. CAS Registry Number: 96-45-7. Code related to a toxic chemical in the Toxics Release Inventory.
Eurasian Water Milfoil, <i>Myriophyllum spicatum</i>	Eurasian Water Milfoil, <i>Myriophyllum spicatum</i> (ITIS TRN 27039). National Invasive Species Council. 2001. National Management Plan: Meeting the Invasive Species Challenge. Available on Internet at: http://www.invasivespecies.gov/
Excess Algal Growth	Excess Algal Growth. Code described in the following EPA technical document(s): EPA-841-B-99-007.
Fecal Coliform	Fecal Coliform. BIN ID: 761692. Code a Safe Drinking Water Act Standard. Code commonly used in CWA NPDES permitting. Code described in the following EPA technical document(s): EPA-841-R-00-0002.
Fipronil	Fipronil. Pesticide used in granular turf product, pet care flea and tick sprays, pet care flea and tick topical solutions, and roach and ant baits. 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazole-3-carbonitrile.
Fish Advisory - No Restriction	Fish Advisory - No Restriction. This code is typically used as an Observed Effect. A Fish Advisory has been issued, but no restrictions have been placed on the consumption of fish.
Fish Advisory-Commercial Fishing Restrictions	Fish Advisory-Commercial Fishing Restrictions. Restrictions on the taking of any species of finfish or shellfish for commercial purposes from waters within a closed area. The possession, sale, barter, trade or exchange of any finfish, shellfish, or other aquatic life from closed areas during the closure is prohibited.
Fish Kills	Fish Kills. See technical background in American Fisheries Society. 1992. Investigation and Valuation of Fish Kills. AFS Pollution Committee (Southern Division) and Socioeconomic Section. Bethesda, MD.

Suspected Causes	Description of Suspected Causes of Impairment
Fishes Bioassessments	Fishes Bioassessments. Code related to biological assessments to make use attainment conclusions. Code described in the following EPA technical document(s): EPA-841-B-99-002.
Fish-Passage Barrier	Fish Barriers (Fish Passage). Code described in the following EPA technical document(s): : FISH PASSAGE GOALS (EPA-903-F-93-002).
Fluometuron	Fluometuron. CAS Registry Number: 2164-17-2. Code related to a toxic chemical in the Toxics Release Inventory.
Fluoranthene	Fluoranthene. CAS Registry Number: 206-44-0. Code a Clean Water Act Priority Pollutant.
Fluorene	Fluorene. CAS Registry Number: 86-73-7. Code a Clean Water Act Priority Pollutant.
Fluoride	Fluoride. CAS Registry Number: 16984-48-8. Code a Safe Drinking Water Act Standard.
Foam/Flocs/Scum/Oil Slicks	Foam/Flocs/Scum/Oil Slicks. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Formaldehyde	Formaldehyde. CAS Registry Number: 50-00-0. Code related to a toxic chemical in the Toxics Release Inventory.
Formic acid	Formic acid. CAS Registry Number: 64-18-6. Code related to a toxic chemical in the Toxics Release Inventory.
Fuel Oil No. 4	Fuel Oil No. 4: Black viscous liquid with a strong petroleum type odor. Mixture of combustible hydrocarbons used as heating fuel.
Fuel Oil No. 5	Fuel Oil No. 5: Black viscous liquid with a strong petroleum type odor. Mixture of combustible hydrocarbons used as heating fuel.
Fuel Oil No. 6	Fuel Oil No. 6: Black viscous liquid with a strong petroleum type odor. Mixture of combustible hydrocarbons used as heating fuel.
Furan Compounds	Furan Compounds. CAS Registry Number: 110-00-9.
Gasoline	Gasoline: (Natural Gasoline, PetrolUN (DOT) #1203) Complex mixture of combustible hydrocarbons (propane, butane, pentane, hexane and heptane, etc.) recovered in refineries in liquid form. Also found in wet natural gas. Used as a solvent and fuel source for vehicles and equipment.

Suspected Causes	Description of Suspected Causes of Impairment
<i>Giardia lamblia</i>	<i>Giardia lamblia</i> . BIN ID: 761726. Code a Safe Drinking Water Act Standard. Code described in the following EPA technical document(s): EPA-841-R-00-0002.
Glyphosate	Glyphosate. CAS Registry Number: 1071-83-6. Code a Safe Drinking Water Act Standard.
Gold	Gold. CAS Registry Number: 7440-57-5.
Gross Alpha	Gross Alpha (including radium-226, but excluding radon and uranium)
Guthion	Guthion. CAS Registry Number: 86-50-0. Code a Clean Water Act Non-Priority Pollutant.
Habitat Assessment (Lakes)	Habitat Assessment (Lakes). Code related to biological assessments to make use attainment conclusions. Code described in the following EPA technical document(s): EPA-841-B-99-002.
Habitat Assessment (Streams)	Habitat Assessment (Streams). Code related to biological assessments to make use attainment conclusions. Code described in the following EPA technical document(s): EPA-841-B-99-002.
Heptachlor	Heptachlor. CAS Registry Number: 76-44-8. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Heptachlor epoxide	Heptachlor epoxide. CAS Registry Number: 1024-57-3. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Hexachlorobenzene	Hexachlorobenzene. CAS Registry Number: 118-74-1. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
Hexachlorobutadiene	Hexachlorobutadiene. CAS Registry Number: 87-68-3. Code a Clean Water Act Priority Pollutant. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
Hexachlorocyclohexane	Hexachlorocyclohexane. CAS Registry Number: 27154-44-5. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
Hexachlorocyclohexane (mixture)	Hexachlorocyclohexane (mixture). CAS Registry Number: 608-73-1. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
Hexachlorocyclopentadiene	Hexachlorocyclopentadiene. CAS Registry Number: 77-47-4. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.

Suspected Causes	Description of Suspected Causes of Impairment
Hexachloroethane	Hexachloroethane. CAS Registry Number: 67-72-1. Code a Clean Water Act Priority Pollutant.
Hexachlorophene	Hexachlorophene. CAS Registry Number: 70-30-4. Code related to a toxic chemical in the Toxics Release Inventory.
Hexamethylphosphoramide	Hexamethylphosphoramide. CAS Registry Number: 680-31-9. Code related to a toxic chemical in the Toxics Release Inventory.
High Flow Regime	High Flow Regime
Hydrazine	Hydrazine. CAS Registry Number: 302-01-2. Code related to a toxic chemical in the Toxics Release Inventory.
Hydrochloric acid	Hydrochloric acid. CAS Registry Number: 7647-01-0. Code related to a toxic chemical in the Toxics Release Inventory.
Hydrogen cyanide	Hydrogen cyanide. CAS Registry Number: 74-90-8. Code related to a toxic chemical in the Toxics Release Inventory.
Hydroquinone	Hydroquinone. CAS Registry Number: 123-31-9. Code related to a toxic chemical in the Toxics Release Inventory.
Indeno[1,2,3-cd]pyrene	Indeno[1,2,3-cd]pyrene. CAS Registry Number: 193-39-5. Code a Clean Water Act Priority Pollutant.
Invasive Aquatic Algae	Invasive Aquatic Algae. Invasive Aquatic Algae. Examples include <i>Didymosphenia geminata</i> described at http://www.epa.gov/region8/water/didymosphenia/
Iron	Iron. CAS Registry Number: 7439-89-6. Code a Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard.
Isobutyraldehyde	Isobutyraldehyde. CAS Registry Number: 78-84-2. Code related to a toxic chemical in the Toxics Release Inventory.
Isophorone	Isophorone. CAS Registry Number: 78-59-1. Code a Clean Water Act Priority Pollutant.
Isopropanol	Isopropanol. CAS Registry Number: 67-63-0.
Isosafrole	Isosafrole. CAS Registry Number: 120-58-1. Code related to a toxic chemical in the Toxics Release Inventory.
Kepone	

Suspected Causes	Description of Suspected Causes of Impairment
Kerosene	Kerosene: (JP-5, Jet fuel, Fuel oil no. 1, Kerosene, Navy fuel, Light petroleum, Lamp oil, Aviation fuel, Turbine Engine fuel (DOT shipping name) UN (DOT) #1223, or #1863) Pale yellow or colorless mobile, oily liquid with a characteristic odor. Mixture of combustible hydrocarbons used as fuel additive, lubricant, and a fuel source for vehicles, equipment, and aircraft.
Lack of a coldwater assemblage	Lack of a coldwater assemblage. Used in situations where the Agency has acquired fish community data on designated cold water streams that meet all data quality requirements as defined in the assessment guidance but for which there is no formal assessment tool (e.g. IBI) that may be used to ascertain the segments impairment status. In such cases the Agency relies on an interpretation of its narrative language in rule. Waterbodies that have been identified as lacking a coldwater assemblage have a fish community comprised predominantly of tolerant, warmwater species. Obligate coldwater species such as trout and sculpins are absent or nearly so.
Lake Bioassessments	Lake Bioassessments. Code related to biological assessments to make use attainment conclusions. Code described in the following EPA technical document(s): EPA-841-B-98-007.
Lamda-Cyhalothrin	Lamda-Cyhalothrin. CAS Registry Number: 91465-08-6. An insecticide registered by the U.S. Environmental Protection Agency in 1988. Clean Water Act Non-Priority Pollutant.
Lead	Lead. CAS Registry Number: 7439-92-1. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Light Attenuation Coefficient	Light Attenuation Coefficient. The diffuse light attenuation coefficient (Kd) is a measure of the rate at which photosynthetically active radiation is attenuated as it passes down through the water column.
Lindane	Lindane. CAS Registry Number: 58-89-9. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern (synonym: gamma. - BHC(gamma-Hexachlorocyclohexane)
Linuron	Linuron. CAS Registry Number: 330-55-2. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
Loss of Instream Cover	Loss of instream cover. Reduction in woody debris, rootwads, aquatic vegetation, etc. related to hydromodification or removal of riparian zone vegetation.

Suspected Causes	Description of Suspected Causes of Impairment
Low flow alterations	Low flow alterations (anthropogenic sources, e.g., diversions or subsurface drainage). Federal Interagency Stream Restoration Working Group (ISRWG). 1998 (Updated 2001). Stream Corridor Restoration: Principles, Processes, and Practices. By the Federal Interagency Stream Restoration Working Group (FISRWG)(15 Federal agencies of the US gov't). GPO Item No. 0120-A; SuDocs No. A 57.6/2:EN 3/PT.653
Malathion	Malathion. CAS Registry Number: 121-75-5. Code a Clean Water Act Non-Priority Pollutant.
Maleic anhydride	Maleic anhydride. CAS Registry Number: 108-31-6. Code related to a toxic chemical in the Toxics Release Inventory.
Manganese	Manganese. CAS Registry Number: 7439-96-5. Code a Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard.
m-Cresol	m-Cresol. CAS Registry Number: 108-39-4. Code related to a toxic chemical in the Toxics Release Inventory.
m-Dichlorobenzene	m-Dichlorobenzene. CAS Registry Number: 541-73-1. Code a Clean Water Act Priority Pollutant. Synonym: 1,3-Dichlorobenzene.
m-Dinitrobenzene	m-Dinitrobenzene. CAS Registry Number: 99-65-0. Code related to a toxic chemical in the Toxics Release Inventory.
Mercury	Mercury. CAS Registry Number: 7439-97-6. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
Mercury in Fish Tissue	Mercury in Fish Tissue. Mercury found in the tissue of edible fish.
Mercury in Water Column	Mercury found in the ambient water.
Mercury, dissolved	Mercury, dissolved. CAS Registry Number: 7439-97-6. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
Mercury, total	Mercury, total. CAS Registry Number: 7439-97-6. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
Methacrylonitrile	Methacrylonitrile. CAS Registry Number: 126-98-7. Code related to a toxic chemical in the Toxics Release Inventory.

Suspected Causes	Description of Suspected Causes of Impairment
Methanol	Methanol. CAS Registry Number: 67-56-1. Code related to a toxic chemical in the Toxics Release Inventory.
Methoxychlor	Methoxychlor. CAS Registry Number: 72-43-5. Code a Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard.
Methyl bromide	Methyl bromide. CAS Registry Number: 74-83-9. Code a Clean Water Act Priority Pollutant.
Methyl chloride	Methyl chloride. CAS Registry Number: 74-87-3. Code a Clean Water Act Priority Pollutant.
Methyl ethyl ketone	Methyl ethyl ketone. CAS Registry Number: 78-93-3. Code related to a toxic chemical in the Toxics Release Inventory.
Methyl hydrazine	Methyl hydrazine. CAS Registry Number: 60-34-4. Code related to a toxic chemical in the Toxics Release Inventory.
Methyl iodide	Methyl iodide. CAS Registry Number: 74-88-4. Code related to a toxic chemical in the Toxics Release Inventory.
Methyl isobutyl ketone	Methyl isobutyl ketone. CAS Registry Number: 108-10-1. Code related to a toxic chemical in the Toxics Release Inventory.
Methyl methacrylate	Methyl methacrylate. CAS Registry Number: 80-62-6. Code related to a toxic chemical in the Toxics Release Inventory.
Methyl Parathion	Methyl Parathion. CAS Registry Number: 298-00-0.
Methyl Tertiary-Butyl Ether (MTBE)	Methyl Tertiary-Butyl Ether (MTBE). CAS Registry Number: 1634-04-4. Code a Safe Drinking Water Act Standard. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
Methylene bromide	Methylene bromide. CAS Registry Number: 74-95-3. Code related to a toxic chemical in the Toxics Release Inventory.
Methylmercury	Methylmercury. CAS Registry Number: 22967-92-6. Code a Clean Water Act Non-Priority Pollutant. New EPA methodology for public health protection issued January, 2001. New methodology for methylmercury in fish tissue designed to replace previous EPA guidance based on total mercury levels in ambient water. EPA-823-R-01-001

Suspected Causes	Description of Suspected Causes of Impairment
Mirex	Mirex. CAS Registry Number: 2385-85-5. Code a Clean Water Act Non-Priority Pollutant. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
Molinate	Molinate. CAS Registry Number: 2212-67-1. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
Molybdenum	Molybdenum. CAS Registry Number: 7439-98-7.
m-Xylene	m-Xylene. CAS Registry Number: 108-38-3. Code related to a toxic chemical in the Toxics Release Inventory.
Naphthalene	Naphthalene. CAS Registry Number: 91-20-3. Code a Clean Water Act Priority Pollutant.
Natural Conditions (Flow or Habitat)	Natural Conditions (Flow or Habitat). Seasonal, naturally occurring low flows and/or natural habitat limitations which result in sub-optimal physical habitat conditions unsuitable for support of balanced, integrated, adaptive communities of aquatic organisms endemic to the region.
n-Butyl alcohol	n-Butyl alcohol. CAS Registry Number: 71-36-3. Code related to a toxic chemical in the Toxics Release Inventory.
Neurotoxic shellfish poisoning (NSP) biotoxins	Neurotoxic shellfish poisoning (NSP) biotoxin. A major category of human health impacts associated with toxins from "red tides" and similar harmful algal blooms in marine waters. See materials available through the Harmful Algal Page maintained by the National Office for Marine Biotoxins and Harmful Algal Blooms, Woods Hole Oceanographic Institution at the following Internet address: http://www.redtide/whoi.edu/hab/
Nickel	Nickel. CAS Registry Number: 7440-02-0. Code a Clean Water Act Priority Pollutant.
Nitrate/Nitrite (Nitrite + Nitrate as N)	Nitrate/Nitrite (Nitrite + Nitrate as N)
Nitrates	Nitrates. CAS Registry Number: 14797-55-8. Code a Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard.
Nitrilotriacetic acid	Nitrilotriacetic acid. CAS Registry Number: 139-13-9. Code related to a toxic chemical in the Toxics Release Inventory.

Suspected Causes	Description of Suspected Causes of Impairment
Nitrobenzene	Nitrobenzene. CAS Registry Number: 98-95-3. Code a Clean Water Act Priority Pollutant. Code a Clean Water Act Organoleptic Pollutant. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
Nitrodibutylamine,N	Nitrodibutylamine,N. CAS Registry Number: 924-16-3. Code a Clean Water Act Non-Priority Pollutant.
Nitrofen	Nitrofen. CAS Registry Number: 1836-75-5. Code related to a toxic chemical in the Toxics Release Inventory.
Nitrogen (Total)	Total Nitrogen as N. The total nitrogen based on a sum of nitrogen substances, including: Nitrogen, Nitrate, Nitrite, TKN, and Ammonia.
Nitrogen, Nitrate	Nitrogen, Nitrate
Nitrogen, Nitrite	Nitrogen, Nitrite. CAS Registry Number: 14797-65-0. Code a Safe Drinking Water Act Standard.
Nitroglycerin	Nitroglycerin. CAS Registry Number: 55-63-0. Code related to a toxic chemical in the Toxics Release Inventory.
Nitrosamines	Nitrosamines. CAS Registry Number: 35576-91-1. Code a Clean Water Act Non-Priority Pollutant.
Nitrosodiethylamine,N	Nitrosodiethylamine,N. CAS Registry Number: 55-18-5. Code a Clean Water Act Non-Priority Pollutant.
N-Nitrosodimethylamine	N-Nitrosodimethylamine. CAS Registry Number: 62-75-9. Code a Clean Water Act Priority Pollutant.
N-Nitrosodiphenylamine	N-Nitrosodiphenylamine. CAS Registry Number: 86-30-6. Code a Clean Water Act Priority Pollutant.
N-Nitrosodipropylamine	N-Nitrosodipropylamine. CAS Registry Number: 621-64-7. Code a Clean Water Act Priority Pollutant.
N-Nitrosomorpholine	N-Nitrosomorpholine. CAS Registry Number: 59-89-2. Code related to a toxic chemical in the Toxics Release Inventory.
N-Nitroso-N-ethylurea	N-Nitroso-N-ethylurea. CAS Registry Number: 759-73-9. Code related to a toxic chemical in the Toxics Release Inventory.
N-Nitroso-N-methylurea	N-Nitroso-N-methylurea. CAS Registry Number: 684-93-5. Code related to a toxic chemical in the Toxics Release Inventory.

Suspected Causes	Description of Suspected Causes of Impairment
N-Nitrosopiperidine	N-Nitrosopiperidine. CAS Registry Number: 100-75-4. Code related to a toxic chemical in the Toxics Release Inventory.
n-Nonylbenzene	n-Nonylbenzene: (Benzene, nonyl; 1-PhenylnonaneUN (DOT) #3295) Clear liquid. General structure = C ₁₅ H ₂₄ . Uses include detergents and electrical cable insulation/corrosion protection.
Non-Native Aquatic Plants	Non-Native Aquatic Plants. National Invasive Species Council. 2001. National Management Plan: Meeting the Invasive Species Challenge. Available on Internet at: http://www.invasivespecies.gov/
Nonnative Fish, Shellfish, or Zooplankton	Non-Native Fish/Shellfish/Zooplankton Species. National Invasive Species Council. 2001. National Management Plan: Meeting the Invasive Species Challenge. Available on Internet at: http://www.invasivespecies.gov/
Nonylphenol	Nonylphenol. CAS Registry Number: 25154-52-3
Nutrient/Eutrophication Biological Indicators	Nutrient/Eutrophication Biological Indicators. Biological indicators, including macroinvertebrate assessments, indicate excessive nutrients.
o-Cresol (2-Methylphenol)	o-Cresol (2-Methylphenol). CAS Registry Number: 95-48-7. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
Octachlorostyrene	Octachlorostyrene. CAS Registry Number: 29082-74-4. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
Octochloronaphthalene	Octochloronaphthalene. CAS Registry Number: 2234-13-1. Code related to a toxic chemical in the Toxics Release Inventory.
o-Dichlorobenzene	o-Dichlorobenzene. CAS Registry Number: 95-50-1. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard. Synonym: 1,2-Dichlorobenzene.
Odor	Odor. Any Odor which creates an offensive condition in violation of a "Free From" standard from a state's Water Quality Standards Regulations.
Odor threshold number	Odor threshold number. Code a Safe Drinking Water Act Standard. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Oil and Grease	Oil and Grease. Code a Clean Water Act Non-Priority Pollutant. Code commonly used in CWA NPDES permitting. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .

Suspected Causes	Description of Suspected Causes of Impairment
Organic Enrichment (Sewage) Biological Indicators	Organic Enrichment (Sewage) Biological Indicators. Biological indicators, including macroinvertebrate assessments, indicate excessive organic enrichment.
Other	Other -- Unique conditions resulting in impairment that cannot be represented by a more specific code.
Other anthropogenic substrate alterations	Other anthropogenic substrate alterations (e.g., lack of snags). Federal Interagency Stream Restoration Working Group (ISRWG). 1998 (Updated 2001). Stream Corridor Restoration: Principles, Processes, and Practices. By the Federal Interagency Stream Restoration Working Group (FISRWG)(15 Federal agencies of the US gov't). GPO Item No. 0120-A; SuDocs No. A 57.6/2:EN 3/PT.653
Other flow regime alterations	Other flow regime alterations (anthropogenic sources, e.g., decrease in flood pulses due to hydrostructures). Federal Interagency Stream Restoration Working Group (ISRWG). 1998 (Updated 2001). Stream Corridor Restoration: Principles, Processes, and Practices. By the Federal Interagency Stream Restoration Working Group (FISRWG)(15 Federal agencies of the US gov't). GPO Item No. 0120-A; SuDocs No. A 57.6/2:EN 3/PT.653
o-Toluidine	o-Toluidine. CAS Registry Number: 95-53-4. Code related to a toxic chemical in the Toxics Release Inventory.
o-Toluidine hydrochloride	o-Toluidine hydrochloride. CAS Registry Number: 636-21-5. Code related to a toxic chemical in the Toxics Release Inventory.
Oxadiazon	Oxadiazon. CAS Registry Number: 19666-30-9.
Oxamyl (Vydate)	Oxamyl (Vydate). CAS Registry Number: 23135-22-0. Code a Safe Drinking Water Act Standard.
Oxygen, Dissolved	Oxygen, Dissolved. CAS Registry Number: 7782-44-7. Code a Clean Water Act Non-Priority Pollutant. Code commonly used in CWA NPDES permitting.
o-Xylene	o-Xylene. CAS Registry Number: 95-47-6. Code related to a toxic chemical in the Toxics Release Inventory.
Paraldehyde	Paraldehyde. CAS Registry Number: 123-63-7. Code related to a toxic chemical in the Toxics Release Inventory.

Suspected Causes	Description of Suspected Causes of Impairment
Paralytic shellfish poisoning (PSP) biotoxins	Paralytic shellfish poisoning (PSP) biotoxin. A major category of human health impacts associated with toxins from "red tides" and similar harmful algal blooms in marine waters. See materials available through the Harmful Algal Page maintained by the National Office for Marine Biotoxins and Harmful Algal Blooms, Woods Hole Oceanographic Institution at the following Internet address: http://www.redtide/whoi.edu/hab/
Parathion	Parathion. CAS Registry Number: 56-38-2. Code a Clean Water Act Non-Priority Pollutant.
Partial pressure of dissolved gases	Partial pressure of dissolved gases. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Particle distribution (Embeddedness)	Particle distribution (Embeddedness). Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
PCB in Fish Tissue	Polychlorinated Biphenyls (PCB) found in the tissue of edible fish.
PCB in Water Column	Polychlorinated Biphenyls (PCB) found in the water column
PCB-1242	PCB-1242. CAS Registry Number: 53469-12-9.
PCB-1248	PCB-1248. CAS Registry Number: 12672-29-6.
PCB-1254	PCB-1254. CAS Registry Number: 11097-69-1.
PCB-1260	PCB-1260. CAS Registry Number: 11096-82-5.
p-Dichlorobenzene	para-Dichlorobenzene. CAS Registry Number: 106-46-7. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard. Synonym: 1,4 Dichlorobenzene.
Pentachlorobenzene	Pentachlorobenzene. CAS Registry Number: 608-93-5. Code a Clean Water Act Non-Priority Pollutant. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
Pentachloroethane	Pentachloroethane. CAS Registry Number: 76-01-7. Code related to a toxic chemical in the Toxics Release Inventory.
Pentachlorophenol (PCP)	Pentachlorophenol (PCP). CAS Registry Number: 87-86-5. Code a Clean Water Act Priority Pollutant. Code a Clean Water Act Organoleptic Pollutant. Code a Safe Drinking Water Act Standard.

Suspected Causes	Description of Suspected Causes of Impairment
Perchlorate	Perchlorate. CAS Registry Number: 14797-73-0. Code a Safe Drinking Water Act Standard. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
Perfluorooctane Sulfonate (PFOS)	Perfluorooctane Sulfonate (PFOS). In a class of chemicals known as perfluorochemicals (PFCs) that have been used for decades to make products that resist heat, oil, stains, grease and water. PFCs are very stable chemicals which do not break down in the environment and some PFCs have been found to accumulate in humans and animals. PFOS has been measured in the fillet tissue of several species of fish including the bluegill sunfish and smallmouth bass at concentrations of health concern for people who eat these fish too often.
Perfluorooctane Sulfonate (PFOS) in Fish Tissue	Perfluorooctane Sulfonate (PFOS) found in the tissue of edible fish.
Periphyton (Aufwuchs) Indicator Bioassessments	Periphyton (Aufwuchs) Indicator Bioassessments. Code related to biological assessments to make use attainment conclusions. Code described in the following EPA technical document(s): EPA-822-B-00-015 (-022) 8 volumes.
Permethrin	Permethrin. CAS Registry Number: 52645-53-1. A common synthetic chemical, widely used as an insecticide, acaricide, and insect repellent. Clean Water Act Non-Priority Pollutant.
Petroleum Hydrocarbons	Petroleum Hydrocarbons: An unspecified mix of petroleum hydrocarbons.
pH	pH. Code a Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard. Code commonly used in CWA NPDES permitting. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
pH, High	pH. Code a Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard. Code commonly used in CWA NPDES permitting. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
pH, Low	pH. Code a Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard. Code commonly used in CWA NPDES permitting. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .

Suspected Causes	Description of Suspected Causes of Impairment
Phenanthrene	Phenanthrene. CAS Registry Number: 85-01-8. Code a Clean Water Act Priority Pollutant.
Phenol	Phenol. CAS Registry Number: 108-95-2. Code a Clean Water Act Priority Pollutant. Code a Clean Water Act Organoleptic Pollutant.
Phenols	Phenols. CAS Registry Number: 64743-03-9.
Phosphate	Phosphate. CAS Registry Number: 14265-44-2.
Phosphorus (Total)	Total Phosphorus. Total Phosphorus measured excluding Orthophosphate.
Phosphorus, Elemental	Phosphorus, Elemental. CAS Registry Number: 7723-14-0. Code a Clean Water Act Non-Priority Pollutant. Code commonly used in CWA NPDES permitting.
Photomirex	Photomirex. CAS Registry Number: 39801-14-4. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
Phthalic anhydride	Phthalic anhydride. CAS Registry Number: 85-44-9. Code related to a toxic chemical in the Toxics Release Inventory.
Physical substrate habitat alterations	Physical substrate habitat alterations (e.g., fines embedding cobbles). Federal Interagency Stream Restoration Working Group (ISRWG). 1998 (Updated 2001). Stream Corridor Restoration: Principles, Processes, and Practices. By the Federal Interagency Stream Restoration Working Group (FISRWG)(15 Federal agencies of the US gov't). GPO Item No. 0120-A; SuDocs No. A 57.6/2:EN 3/PT.653
Picloram	Picloram. CAS Registry Number: 1918-02-1. Code a Safe Drinking Water Act Standard.
Picric acid	Picric acid. CAS Registry Number: 88-89-1. Code related to a toxic chemical in the Toxics Release Inventory.
Plankton Count	Plankton Count. The concentration of plankton organisms.
Polybrominated Biphenyls	Polybrominated Biphenyls. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Polychlorinated biphenyls	Polychlorinated biphenyls. CAS Registry Number: 1336-36-3. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
Polycyclic Aromatic Hydrocarbons (PAHs) (Aquatic Ecosystems)	Polycyclic Aromatic Hydrocarbons (PAHs) (Aquatic Ecosystems). General PAHs as they may exist in an aquatic ecosystem. A group of chemicals, including sediments, that could include Benzo(a)pyrene.

Suspected Causes	Description of Suspected Causes of Impairment
p-Phenylenediamine	p-Phenylenediamine. CAS Registry Number: 106-50-3. Code related to a toxic chemical in the Toxics Release Inventory.
Prometon (Prometone)	Prometon (Prometone). CAS Registry Number: 1610-18-0. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
Pronamide	Pronamide. CAS Registry Number: 23950-58-5. Code related to a toxic chemical in the Toxics Release Inventory.
Propanil (DCPA mono- and di-acid degrad	Propanil (DCPA mono- and di-acid degrad. CAS Registry Number: 709-98-8. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
Propionaldehyde	Propionaldehyde. CAS Registry Number: 123-38-6. Code related to a toxic chemical in the Toxics Release Inventory.
Propoxur	Propoxur. CAS Registry Number: 114-26-1. Code related to a toxic chemical in the Toxics Release Inventory.
Propylene Glycol	Propylene Glycol. CAS Registry Number: 57-55-6.
Propylene oxide	Propylene oxide. CAS Registry Number: 75-56-9. Code related to a toxic chemical in the Toxics Release Inventory.
p-Xylene	p-Xylene. CAS Registry Number: 106-42-3. Code related to a toxic chemical in the Toxics Release Inventory.
Pyrene	Pyrene. CAS Registry Number: 129-00-0. Code a Clean Water Act Priority Pollutant.
Pyridine	Pyridine. CAS Registry Number: 110-86-1. Code related to a toxic chemical in the Toxics Release Inventory.
Quinoline	Quinoline. CAS Registry Number: 91-22-5. Code related to a toxic chemical in the Toxics Release Inventory.
Quinone	Quinone. CAS Registry Number: 106-51-4. Code related to a toxic chemical in the Toxics Release Inventory.
Quintozene	Quintozene. CAS Registry Number: 82-68-8. Code related to a toxic chemical in the Toxics Release Inventory.
Radium	Radium. CAS Registry Number: 7440-14-4.
Radium 226	Radium 226. CAS Registry Number: 13982-63-3.
Radium 228	Radium 228. CAS Registry Number: 15262-20-1.
RDX	RDX. CAS Registry Number: 121-82-4. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.

Suspected Causes	Description of Suspected Causes of Impairment
Residual Surface and Sub-surface Oil/Tar Balls/Tar Mats	Residual Surface and Sub-surface Oil/Tar Balls/Tar Mats. Remnant oil, tar balls, or tar mats remaining on shoreline/intertidal areas following past open water oil spills.
Residues	Residues. Floating solids, debris, sludge, deposits, foam, scum, or any other material or substance remaining in a waterbody as a result of direct or nearby human activity.
Safrole	Safrole. CAS Registry Number: 94-59-7. Code related to a toxic chemical in the Toxics Release Inventory.
Salinity	Salinity. Code a Clean Water Act Non-Priority Pollutant. Code commonly used in CWA NPDES permitting. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
sec-Butyl alcohol	sec-Butyl alcohol. CAS Registry Number: 78-92-2. Code related to a toxic chemical in the Toxics Release Inventory.
Secchi disk transparency	Secchi disk transparency. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Sediment Bioassays -- Acute Toxicity Freshwater	Sediment Bioassays -- Acute Toxicity -- Freshwater. Code related to toxic bioassays used for CWA permitting. Code described in the following EPA technical document(s): EPA-823-F-00-002. Code related to toxic bioassays used for CWA permitting.
Sediment Bioassays -- Chronic Toxicity Freshwater	Sediment Bioassays -- Chronic Toxicity -- Freshwater. Code related to toxic bioassays used for CWA permitting. Code described in the following EPA technical document(s): EPA-823-F-00-002. Code related to toxic bioassays used for CWA permitting.
Sediment Bioassays for Estuarine and Marine Water	Sediment Bioassays for Estuarine and Marine Water. Code related to toxic bioassays used for CWA permitting. Code described in the following EPA technical document(s): EPA-600-R-94-025. Code related to toxic bioassays used for CWA permitting.
Sediment Screening Value (Exceedence)	Exceedence of Sediment Screening Value. This code is typically used as an Observed Effect. One or more values observed are above a set screening value. This does not infer impairment.
Sedimentation/Siltation	Sedimentation/Siltation. Code described in the following EPA technical document(s): EPA-841-B-99-004.
Selenium	Selenium. CAS Registry Number: 7782-49-2. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.

Suspected Causes	Description of Suspected Causes of Impairment
Selenium, dissolved	Selenium, dissolved. CAS Registry Number: 7782-49-2. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Selenium, total recoverable	Selenium, total recoverable. CAS Registry Number: 7782-49-2. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Silica	Silica. CAS Registry Number: 7631-86-9.
Silicate	Silicate. CAS Registry Number: 12627-13-3.
Silver	Silver. CAS Registry Number: 7440-22-4. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Simazine	Simazine. CAS Registry Number: 122-34-9. Code a Safe Drinking Water Act Standard.
Single Sample Toxic Exceedence	Single Sample Toxic Exceedence. This code is typically used as an Observed Effect. Only one sample returned an exceedance of the criteria, and warrants further study, but does not warrant a TMDL.
Sludge	Sludge. Any solid, semisolid, or liquid waste generated from a municipal, commercial, or industrial wastewater treatment plant, water supply treatment plant, or air pollution control facility or any other such waste having similar characteristics and effects.
Sodium	Sodium. CAS Registry Number: 7440-23-5.
Sodium Adsorption Ratio (SAR)	Sodium Adsorption Ratio (SAR). The sodium hazard of soil usually is expressed as the sodium adsorption ratio (SAR). This is the proportion of water soluble Na ⁺ to Ca ²⁺ plus Mg ²⁺ in the soil. The following formula is used to calculate SAR: $SAR = (Na^{2+} \text{ meq/L}) / SQR [(Ca^{2+} \text{ meq/L}) + (Mg^{2+} \text{ meq/L}) / 2]$. Ions in the equation are expressed in millequivalents per liter (meq/L).
Solids (Suspended/Bedload)	Solids (Suspended/Bedload). Code described in the following EPA technical document(s): EPA-841-B-99-004.
Soluble Phosphorus	Soluble Phosphorus. CAS Registry Number: 7723-14-0
Specific Conductance	Specific Conductance. Code commonly used in CWA NPDES permitting. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Streptococcus, fecal	Streptococcus, fecal. BIN ID: 763862. Code described in the following EPA technical document(s): EPA-841-R-00-0002.

Suspected Causes	Description of Suspected Causes of Impairment
Strontium	Strontium. CAS Registry Number: 7440-24-6.
Styrene	Styrene. CAS Registry Number: 100-42-5. Code a Safe Drinking Water Act Standard.
Styrene oxide	Styrene oxide. CAS Registry Number: 96-09-3. Code related to a toxic chemical in the Toxics Release Inventory.
Sulfates	Sulfates. CAS Registry Number: 14808-79-8. Code a Safe Drinking Water Act Standard.
Sulfide-Hydrogen Sulfide	Sulfide-Hydrogen Sulfide. CAS Registry Number: 7783-06-4. Code a Clean Water Act Non-Priority Pollutant.
Suspended Algae	Suspended Algae. Code described in the following EPA technical document(s): EPA-841-B-99-007.
Taste and Odor	Taste and Odor. A Free From standard from a state's Water Quality Standards Regulations.
Temperature, water	Temperature, water. Code a Clean Water Act Non-Priority Pollutant. Code commonly used in CWA NPDES permitting. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Terbacil	Terbacil. CAS Registry Number: 5902-51-2. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
Terbufos	Terbufos. CAS Registry Number: 13071-79-9. Code pertains to Safe Drinking Water Act Unregulated Contaminants Monitoring Rule.
tert-Butyl alcohol	tert-Butyl alcohol. CAS Registry Number: 75-65-0. Code related to a toxic chemical in the Toxics Release Inventory.
Test Use	Trifluralin. CAS Registry Number: 1582-09-8. Code related to a toxic chemical in the Toxics Release Inventory.
Tetrachloroethylene	Tetrachloroethylene. CAS Registry Number: 127-18-4. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Tetrachlorvinphos	Tetrachlorvinphos. CAS Registry Number: 961-11-5. Code related to a toxic chemical in the Toxics Release Inventory.
Thallium	Thallium. CAS Registry Number: 7440-28-0. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.

Suspected Causes	Description of Suspected Causes of Impairment
Thiourea	Thiourea. CAS Registry Number: 62-56-6. Code related to a toxic chemical in the Toxics Release Inventory.
Tin	Tin. CAS Registry Number: 7440-31-5.
Toluene	Toluene. CAS Registry Number: 108-88-3. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Total Benzofluoranthenes	Total Benzofluoranthenes. CAS Registry Number: 56832-73-6.
Total Coliform	Total Coliform. BIN ID: 761700. Code a Safe Drinking Water Act Standard. Code described in the following EPA technical document(s): EPA-841-R-00-0002.
Total Dissolved Solids	Total Dissolved Solids. Code a Clean Water Act Non-Priority Pollutant. Code a Safe Drinking Water Act Standard. Code commonly used in CWA NPDES permitting. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Total Inorganic Nitrogen as N	Total Inorganic Nitrogen as N. A measure of the total Nitrate, Nitrite, and Ammonia concentrations of a body of water
Total Kjeldahl Nitrogen (TKN)	Total Kjeldahl Nitrogen (TKN). CAS Registry Number: 7727-37-9.
Total Organic Carbon (TOC)	Total Organic Carbon (TOC). Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Total Soluble Inorganic Nitrogen as N	Total Soluble Inorganic Nitrogen as N. A measure of the total dissolved Nitrate, Nitrite, and Ammonia concentrations of a body of water.
Total Suspended Solids (TSS)	Total Suspended Solids (TSS). Code commonly used in CWA NPDES permitting. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Total Trihalomethane (TTHM)	Total Trihalomethane (TTHM). Code a Safe Drinking Water Act Standard. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Toxaphene	Toxaphene. CAS Registry Number: 8001-35-2. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard. Code used in CWA permitting for Great Lakes Bioaccumulative Chemicals of Concern.
trans-1,2-Dichloroethylene	trans-1,2-Dichloroethylene. CAS Registry Number: 156-60-5. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
trans-Nonachlor	trans-Nonachlor. CAS Registry Number 39765-80-5.

Suspected Causes	Description of Suspected Causes of Impairment
Tributyltin TBT (Tributylstanne)	Tributyltin TBT (Tributylstanne). CAS Registry Number: 688-73-3. Code a Clean Water Act Non-Priority Pollutant.
Trichlorfon	Trichlorfon. CAS Registry Number: 52-68-6. Code related to a toxic chemical in the Toxics Release Inventory.
Trichloroethylene	Trichloroethylene. CAS Registry Number: 79-01-6. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Trichlorofluoromethane (CFC-11)	Trichlorofluoromethane (CFC-11). CAS Registry Number: 75-69-4. Code related to a toxic chemical in the Toxics Release Inventory.
Triethylene Glycol Dichloride	Triethylene Glycol Dichloride. CAS Registry Number: 112-26-5.
Trifluralin	Trifluralin. CAS Registry Number: 1582-09-8. Code related to a toxic chemical in the Toxics Release Inventory.
Tritium	Tritium. CAS Registry Number: 10028-17-8
Trivalent Arsenic (Arsenic III)	Trivalent Arsenic (ARSENIC III)
Trophic State Index	Trophic State Index. Code described in the following EPA technical document(s): EPA-841-B-98-007.
Turbidity	Turbidity. Code a Safe Drinking Water Act Standard. Code commonly used in CWA NPDES permitting. Code a basic physical/chemical measurement. Additional information can be found in EPA's Terminology Reference System .
Uranium	Uranium. CAS Registry Number: 7440-61-1. Code a Safe Drinking Water Act Standard.
Vanadium (fume or dust)	Vanadium (fume or dust). CAS Registry Number: 7440-62-2. Code related to a toxic chemical in the Toxics Release Inventory.
Vinyl acetate	Vinyl acetate. CAS Registry Number: 108-05-4. Code related to a toxic chemical in the Toxics Release Inventory.
Vinyl bromide	Vinyl bromide. CAS Registry Number: 593-60-2. Code related to a toxic chemical in the Toxics Release Inventory.
Vinyl chloride	Vinyl chloride. CAS Registry Number: 75-01-4. Code a Clean Water Act Priority Pollutant. Code a Safe Drinking Water Act Standard.
Vinylidene chloride	Vinylidene chloride. CAS Registry Number: 75-35-4. Code a Clean Water Act Priority Pollutant. Synonym: 1,1-Dichloroethylene.

Suspected Causes	Description of Suspected Causes of Impairment
Viruses (enteric)	Viruses (enteric). Code a Safe Drinking Water Act Standard. Code described in the following EPA technical document(s): EPA-841-R-00-0002.
Visible Oil	Visible Oil. A visible film of petroleum products or byproducts which creates an offensive condition in violation of a "Free From" standard from a state's Water Quality Standards Regulations.
Whole Effluent Toxicity (WET)	Whole Effluent Toxicity. Code commonly used in CWA NPDES permitting. Code related to toxic bioassays used for CWA permitting.
Xylenes (total) (mixed)	Xylenes (total) (mixed). CAS Registry Number: 1330-20-7. Code a Safe Drinking Water Act Standard.
Zebra mussel, <i>Dreissena polymorph</i>	Zebra mussel, <i>Dreissena polymorph</i> (ITIS TSN 81339; STORET Characteristic ID 8530). National Invasive Species Council. 2001. National Management Plan: Meeting the Invasive Species Challenge. Available on Internet at: http://www.invasivespecies.gov/
Zinc	Zinc. CAS Registry Number: 7440-66-6. Code a Clean Water Act Priority Pollutant. Code a Clean Water Act Organoleptic Pollutant. Code a Safe Drinking Water Act Standard.
Zineb	Zineb. CAS Registry Number: 12122-67-7. Code related to a toxic chemical in the Toxics Release Inventory.